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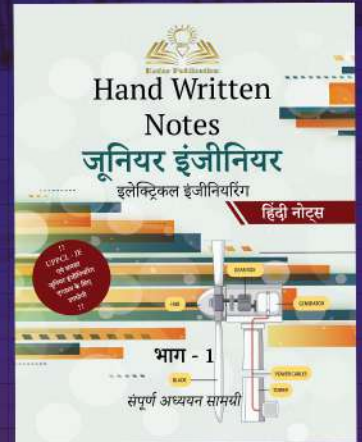
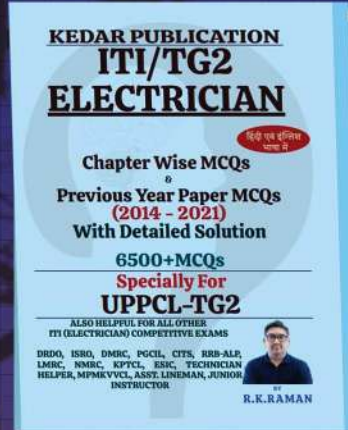
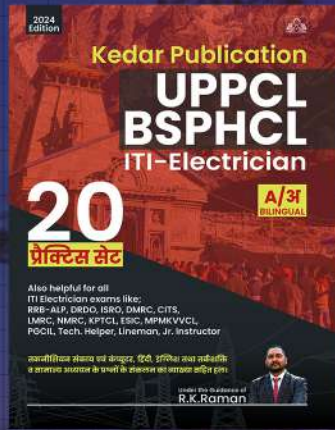
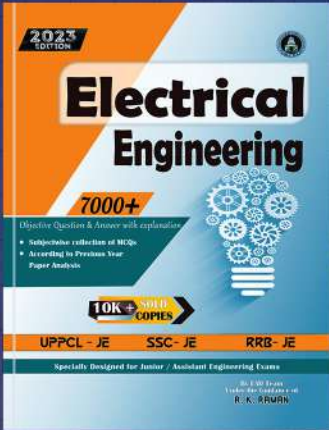
## Objective Book for

Electrical-JE

UPPCL BSPHCL

ITI-Electrician

JE Short Notes



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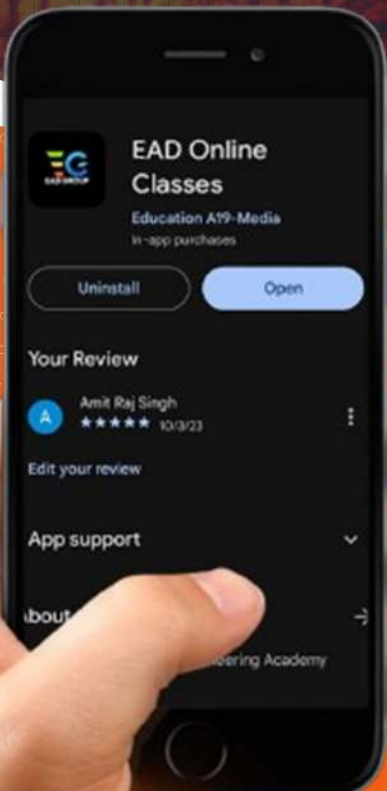
Exam Targeted:-

UPPCL-JE, SSC-JE RRB-JE

PGCIL-DT,DFCCIL-JE, ITI Etc.



**Raman sir**  
Electrical Engg. Expert



### LOCATION

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## LUCKNOW METRO RAIL CORPORATION

Participant ID:	
Participant Name:	Aniket kumar
Test Center Name:	ION Digital Zone iDZ Keshaw Puram
Test Date:	13/05/2018
Test Time:	3:00 PM - 5:00 PM
Subject:	NE04 Jr Engineer (Electrical)
Marks Obtained:	

### Section : Technical

Q.1 For a single phase transformer, wattmeter readings for OC and SC test result are as given below.

Wattmeter reading in OC test - 2.5 KW  
Wattmeter reading in SC test - 5 KW  
Find maximum efficiency of 5 KVA transformer for unity power factor.

- Ans
- 1. 70 %
  - 2. 66.67 %
  - 3. 33.34 %
  - 4. 41.38 %

Question ID : 7246223134  
Chosen Option : 4

Q.2 Which of the following is a type of arc welding?

- Ans
- 1. TIG (Tungsten Inert Gas) welding
  - 2. Friction welding
  - 3. Acetylene welding
  - 4. Ultrasonic welding

Question ID : 7246223184  
Chosen Option : 2

Q.3 Hunting occurs in \_\_\_\_\_.

- Ans
- 1. Both Synchronous motor and Synchronous generator
  - 2. Synchronous motor
  - 3. Transformer
  - 4. Synchronous generator

Question ID : 7246223142  
Chosen Option : 3

Q.4 Which relay is also known as Gas actuated Relay?

- Ans
- 1. Thermal Relay
  - 2. Buchholz Relay
  - 3. Induction Relay
  - 4. Solenoid Type Relay

Question ID : 7246223178  
Chosen Option : 2

Q.5 The unit of luminous flux is:

- Ans
- 1. Candela
  - 2. Lumen
  - 3. Weber
  - 4. Lux

Question ID : 7246223180  
Chosen Option : 2

Q.6 What is the best suitable combination while performing OC and SC test in transformer?

- Ans
- 1. OC test- HV side open, SC test-LV side shorted
  - 2. OC test- LV side open, SC test-LV side shorted
  - 3.

Question ID : 7246223133  
Chosen Option : 4

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OC test- HV side open, SC test-HV side shorted <input checked="" type="checkbox"/> 4.	
OC test- LV side open, SC test-HV side shorted	
Q.7 What damping is used in PMMC instrument?	Question ID : 7246223117 Chosen Option : 1
Ans <input checked="" type="checkbox"/> 1. Eddy current <input checked="" type="checkbox"/> 2. Electromagnetic <input checked="" type="checkbox"/> 3. Fluid friction <input checked="" type="checkbox"/> 4. Air friction	
Q.8 In synchronous generator, coil span factor is defined as _____.	Question ID : 7246223136 Chosen Option : 4
Ans <input checked="" type="checkbox"/> 1. Ratio of the actual voltage obtained to the possible voltage if all the coils of a polar group were concentrated in a single slot. <input checked="" type="checkbox"/> 2. Ratio of phasor sum of coil voltages per phase to arithmetic sum of coil voltages per phase. <input checked="" type="checkbox"/> 3. Ratio of the voltage generated in full coil to the voltage generated in short-pitch coil. <input checked="" type="checkbox"/> 4. Ratio of the voltage generated in short-pitch coil to the voltage generated in full pitch coil.	
Q.9 Which part of steam power plant utilizes flue gases to raise the temperature of feed water?	Question ID : 7246223160 Chosen Option : 2
Ans <input checked="" type="checkbox"/> 1. Condenser <input checked="" type="checkbox"/> 2. Economizer <input checked="" type="checkbox"/> 3. Boiler <input checked="" type="checkbox"/> 4. Air pre heater	
Q.10 Which of the following motor is best suited for an application where high speed and high torque is required?	Question ID : 7246223156 Chosen Option : 4
Ans <input checked="" type="checkbox"/> 1. Universal Motor. <input checked="" type="checkbox"/> 2. Shaded pole motor <input checked="" type="checkbox"/> 3. Capacitor start motor <input checked="" type="checkbox"/> 4. Capacitor start capacitor run motor	
Q.11 1 kWh is equivalent to:	Question ID : 7246223188 Chosen Option : 2
Ans <input checked="" type="checkbox"/> 1. $4.18 \times 10^6$ joules <input checked="" type="checkbox"/> 2. $3.6 \times 10^6$ joules <input checked="" type="checkbox"/> 3. $41.8 \times 10^6$ joules <input checked="" type="checkbox"/> 4. $8.64 \times 10^6$ joules	
Q.12 When light passes through a transparent material, light's direction changes through a small angle. This phenomenon is known as:	Question ID : 7246223186 Chosen Option : 3
Ans <input checked="" type="checkbox"/> 1. Diffraction <input checked="" type="checkbox"/> 2. Dispersion <input checked="" type="checkbox"/> 3. Refraction <input checked="" type="checkbox"/> 4. Reflection	
Q.13 Which of the following properties is true for good heating element?	Question ID : 7246223189 Chosen Option : 1
Ans <input checked="" type="checkbox"/> 1. High temperature coefficient of resistance <input checked="" type="checkbox"/> 2. Low oxidizing temperature <input checked="" type="checkbox"/> 3. Low temperature coefficient of resistance <input checked="" type="checkbox"/> 4. Low melting temperature	
Q.14 TOD related to tariff stands for:	Question ID : 7246223165 Chosen Option : 2
Ans <input checked="" type="checkbox"/> 1. Tariff of Distribution <input checked="" type="checkbox"/> 2. Tariff of Day	

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- 3. Time of Day
- 4. Time of Distribution

Q.15 Out of the following, which loss is also a category of magnetic losses?

- Ans
- 1. Windage loss
  - 2. Eddy current loss
  - 3. Copper loss
  - 4. Friction loss

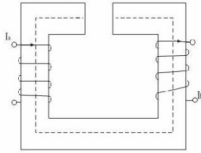
Question ID : 7246223126  
Chosen Option : 2

Q.16 The power drawn from the main supply while performing the Hopkinson test on DC machine is mainly consumed as:

- Ans
- 1. The losses in motor only
  - 2. The input to motor and not to generator.
  - 3. The input to both generator and motor
  - 4. The losses in both machines

Question ID : 7246223131  
Chosen Option : 3

Q.17 In the following figure, a rectangular iron core is shown where a 3 mm air-gap is cut in the core. The mean length of the magnetic path is 150 cm with cross-section of (3 cm × 3 cm). Two coils are present with number of turns as  $N_1 = 600$  and  $N_2 = 500$ , and carry 2 A and 1 A respectively. What is the flux in the air gap? Assume the relative permeability  $\mu_r = 1400$ .



- Ans
- 1. 100  $\mu\text{Wb}$
  - 2. 0  $\mu\text{Wb}$
  - 3. 175.84  $\mu\text{Wb}$
  - 4. 200  $\mu\text{Wb}$

Question ID : 7246223113  
Chosen Option : --

Q.18 The rotor resistance and standstill reactance per phase of a 3-phase slip-ring induction motor are 0.5  $\Omega$  and 1  $\Omega$  respectively. What should be the value of external resistance per phase to be inserted in the rotor circuit to give maximum torque at starting?

- Ans
- 1. 1  $\Omega$
  - 2. 0.5  $\Omega$
  - 3. 0.05  $\Omega$
  - 4. 2  $\Omega$

Question ID : 7246223151  
Chosen Option : 2

Q.19 The dimensions of energy are:

- Ans
- 1.  $[M^1L^{-1}T^{-1}]$
  - 2.  $[M^2L^2T^2]$
  - 3.  $[M^1L^{-2}T^{-1}]$
  - 4.  $[M^1L^2T^{-2}]$

Question ID : 7246223115  
Chosen Option : 4

Q.20 All day efficiency is calculated for \_\_\_\_\_.

- Ans
- 1. Current transformer
  - 2. Potential transformer
  - 3. Power transformer
  - 4. Distribution transformer

Question ID : 7246223146  
Chosen Option : 4

Q.21 What is the main drawback of paper as an insulating material?

- Ans
- 1. Has poor dielectric strength
  - 2. Has low insulation resistivity
  - 3. Has high capacitance
  - 4. It is hygroscopic

Question ID : 7246223176  
Chosen Option : --

Q.22 A galvanometer has an internal resistance of 100 ohm and a shunt resistance of 20 ohm. Find the multiplying factor

Ans

Question ID : 7246223118

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1. 5  
 2. 6  
 3. 0.2  
 4. 0.3

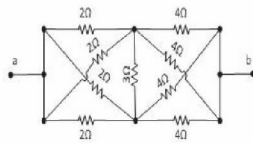
Chosen Option : 2

Q.23 As per Stefan's law of radiation, heat radiated by a body surface is:

- Ans  1.  
 Directly proportional to the square of its absolute temperature  
 2.  
 Inversely proportional to the fourth power of its absolute temperature  
 3.  
 Directly proportional to the fourth power of its absolute temperature  
 4.  
 Inversely proportional to the square of its absolute temperature

Question ID : 7246223190  
Chosen Option : 3

Q.24 Determine the value of equivalent resistance across nodes a and b.



- Ans  1. 1.5 Ω  
 2. 2.5 Ω  
 3. 3 Ω  
 4. 4.5 Ω

Question ID : 7246223110  
Chosen Option : --

Q.25 Let there be a series circuit consisting of a pure resistance and a pure inductance where the current and the voltage are expressed as:  
 $i(t) = 4\sin(314t + (2\pi)/3)$  and  $v(t) = 8\sin(314t + (5\pi)/6)$ .  
 Calculate the average power drawn by the circuit.

- Ans  1. 13.84 W  
 2. 15.12 W  
 3. 12.67 W  
 4. 10.42 W

Question ID : 7246223106  
Chosen Option : 1

Q.26 Which of the statements is/are correct regarding rotating magnetic field production in a 3-phase induction machine?

- 1) Direction of rotation of resultant flux in the air gap depends upon phase sequence.  
 2) Resultant flux of constant magnitude is produced in the air gap of motor.  
 3) Frequency of rotating magnetic field is not same as that of the supply frequency.

- Ans  1. 1, 2 & 3  
 2. 1  
 3. 1 & 2  
 4. 2

Question ID : 7246223150  
Chosen Option : 3

Q.27 In which of the following applications, reluctance motor would be the best choice?

- Ans  1. Hoists and lifts  
 2. Signaling and timing device  
 3. Refrigerators  
 4. Electric shavers

Question ID : 7246223154  
Chosen Option : 4

Q.28 Which of the following is called as fluorescent material?

- Ans  1. Phosphorus  
 2. Helium  
 3. Uranium  
 4. Potassium

Question ID : 7246223181  
Chosen Option : 1

Q.29 In synchronous generator, nature of armature reaction is \_\_\_\_\_ when it supplies a load at unity power.

- Ans  1. Demagnetizing.  
 2. Cross-magnetizing.  
 3.

Question ID : 7246223139  
Chosen Option : 2

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Partly demagnetizing and partly cross-magnetizing <input checked="" type="checkbox"/> 4. Partly magnetizing and partly cross-magnetizing	
<p>Q.30 For DC Series motor, type of starter used for protection from high inrush current is:</p> <p>Ans <input checked="" type="checkbox"/> 1. 2 point starter <input checked="" type="checkbox"/> 2. 4 point starter <input checked="" type="checkbox"/> 3. No starter is used <input checked="" type="checkbox"/> 4. 3 point starter</p>	<p>Question ID : 7246223127 Chosen Option : 1</p>
<p>Q.31 HRC fuse stands for:</p> <p>Ans <input checked="" type="checkbox"/> 1. High Rupturing Capacity <input checked="" type="checkbox"/> 2. High Resistive Capacity <input checked="" type="checkbox"/> 3. High Rated Current <input checked="" type="checkbox"/> 4. High Resonant Capacity</p>	<p>Question ID : 7246223166 Chosen Option : --</p>
<p>Q.32 The synchronizing power is _____ when two alternators are running in synchronism.</p> <p>Ans <input checked="" type="checkbox"/> 1. Negative <input checked="" type="checkbox"/> 2. Positive <input checked="" type="checkbox"/> 3. Zero <input checked="" type="checkbox"/> 4. Cannot be determined</p>	<p>Question ID : 7246223143 Chosen Option : --</p>
<p>Q.33 In V/F control of a 3-phase induction motor, if voltage is increased by 10%, in order to keep air gap flux constant, what is the % increment or decrement in frequency?</p> <p>Ans <input checked="" type="checkbox"/> 1. Frequency is decreased by 10% <input checked="" type="checkbox"/> 2. Frequency is decreased by 20% <input checked="" type="checkbox"/> 3. Frequency is increased by 10% <input checked="" type="checkbox"/> 4. Frequency is increased by 20%</p>	<p>Question ID : 7246223153 Chosen Option : 3</p>
<p>Q.34 In synchronous generator, nature of armature reaction is _____ when it supplies a load at lagging power.</p> <p>Ans <input checked="" type="checkbox"/> 1. Demagnetizing. <input checked="" type="checkbox"/> 2. Partly demagnetizing and partly cross-magnetizing <input checked="" type="checkbox"/> 3. Magnetizing. <input checked="" type="checkbox"/> 4. Cross-magnetizing.</p>	<p>Question ID : 7246223138 Chosen Option : 2</p>
<p>Q.35 Solid angle is expressed in:</p> <p>Ans <input checked="" type="checkbox"/> 1. Lumens <input checked="" type="checkbox"/> 2. Radians <input checked="" type="checkbox"/> 3. Steradian <input checked="" type="checkbox"/> 4. Dimensionless</p>	<p>Question ID : 7246223187 Chosen Option : 3</p>
<p>Q.36 Main consideration in designing of feeder is:</p> <p>Ans <input checked="" type="checkbox"/> 1. Reactive power limit <input checked="" type="checkbox"/> 2. Both atmospheric condition and current carrying capacity <input checked="" type="checkbox"/> 3. Atmospheric condition <input checked="" type="checkbox"/> 4. Current carrying capacity</p>	<p>Question ID : 7246223177 Chosen Option : 4</p>
<p>Q.37 Which of the following is NOT true about the resonance curve at the half power points?</p> <p>Ans <input checked="" type="checkbox"/> 1. <math>Q = 1</math> <input checked="" type="checkbox"/> 2. Bandwidth, <math>B_{hp} = \frac{R}{2\pi \times L}</math> <input checked="" type="checkbox"/> 3. Circuit phase angle is <math>\theta \neq 45^\circ</math></p>	<p>Question ID : 7246223103 Chosen Option : 2</p>

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4. Impedance is  $\sqrt{2} \times R$

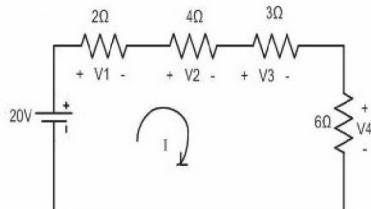
Q.38 A flux of 0.25 mWb is produced by a coil of 1000 turns wound on a ring with a current of 2 A in it. Calculate the e.m.f. induced in the coil when current of 10 A is switched off, assuming the current will fall to zero in 1 millisecond.

- Ans
- 1. 2500 V
  - 2. 25 V
  - 3. 1250 V
  - 4. 12.5 V

Question ID : 7246223108

Chosen Option : --

Q.39 Find the voltages across each resistor as shown in figure.



- Ans
- 1. 2 V, 4 V, 3 V, 6 V
  - 2. 4 V, 8 V, 2.67 V, 5.32 V
  - 3. 2.67 V, 5.32 V, 4 V, 8 V
  - 4. 10 V, 5 V, 6.67 V, 3.33 V

Question ID : 7246223105

Chosen Option : 3

Q.40 Which of the following statements is FALSE for a complex alternating wave which is periodic and have equal positive and negative cycles?

- Ans
- 1. The harmonic with the lowest frequency is called fundamental harmonic.
  - 2. The two halves of the complex wave are identical when only even harmonics (2nd, 4th, 6th etc.) are present.
  - 3. The two halves of the complex wave are identical in shape when only odd harmonics (3rd, 5th, 7th, 9th etc.) are present.
  - 4. Frequency of the complex wave is the same as that of the first harmonic of that wave.

Question ID : 7246223101

Chosen Option : --

Q.41 Which of the following power plants has minimum running cost?

- Ans
- 1. Hydro power plant
  - 2. Thermal power plant
  - 3. Nuclear power plant
  - 4. Diesel power plant

Question ID : 7246223167

Chosen Option : 1

Q.42 Which of the following electronic devices is used for stator voltage control in fan regulators?

- Ans
- 1. Triac
  - 2. BJT
  - 3. Mosfet
  - 4. Diode

Question ID : 7246223152

Chosen Option : 1

Q.43 A 3-phase system is called balanced, when it consists of:

- Ans
- 1. Zero and Negative sequence current only
  - 2. Negative and positive sequence current only
  - 3. Positive sequence current only
  - 4. Zero sequence current only

Question ID : 7246223172

Chosen Option : 2

Q.44 Let  $R_a, R_m, X_a, X_m$  be resistance of auxiliary winding, resistance of main winding, inductive reactance of auxiliary winding, and inductive reactance of main winding. Which of the following best represents relation between  $R_a, R_m, X_a, X_m$  for a split-phase induction motor?

- Ans
- 1.  $\frac{R_a}{X_a} < \frac{R_m}{X_m}$
  - 2.  $\frac{R_a}{X_a} = \frac{R_m}{X_m}$

Question ID : 7246223148

Chosen Option : --

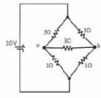
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3.  $\frac{R_a}{X_a} > \frac{R_m}{X_m}$

4.  $\frac{R_a}{X_a} = \frac{R_m}{X_m} = 1$

Q.45 For the given electrical circuit, determine the maximum power absorbed by 3 Ω resistor connected across terminal a and b.



Ans  1. 0 W

2. 15 W

3. -15 W

4. 6 W

Question ID : 7246223111

Chosen Option : 1

Q.46 Investigate the value of form factor of a voltage  $v = 250 \sin(2\pi \times 50t)$

Ans  1. 2.22

2. infinite

3. 0.45

4. 1.11

Question ID : 7246223112

Chosen Option : 4

Q.47 A separately excited, 200 V, DC motor runs with a speed of 1500 rpm at no load current of 5 A. When operated at full load current is found to be 50 A. Assuming constant flux operation with armature resistance of 0.2 Ω, calculate full load speed.

Ans  1. 1400 rpm

2. 1578 rpm

3. 1432 rpm

4. 1500 rpm

Question ID : 7246223125

Chosen Option : 3

Q.48 Nature of resultant flux produced as a result of interaction of fluxes due to two windings placed  $90^\circ$  apart in space will be :

Ans  1. Rotating flux of constant magnitude.

2. Rotating flux of varying magnitude

3. Zero resultant flux.

4. Such configuration is not possible.

Question ID : 7246223147

Chosen Option : 1

Q.49 Projection welding is employed in:

Ans  1. Stamped welds

2. Butt welds

3. Lap welds

4. End to end welds

Question ID : 7246223183

Chosen Option : --

Q.50 A shunt generator running at 1000 rpm has generated emf as 200 V. If the speed increases to 1200 rpm, the generated emf will be nearly

Ans  1. 150 V

2. 240 V

3. 175 V

4. 290 V

Question ID : 7246223122

Chosen Option : 2

Q.51 Lightning arrester is also known as:

Ans  1. Surge integrator

2. Surge creator

3. Surge diverter

4. Surge absorber

Question ID : 7246223163

Chosen Option : 3

Q.52 Choose the INCORRECT statement regarding rotor construction in a 3-phase induction motor:

Ans  1. Better speed control in wound type rotor.

2.

Cage rotor requires lesser maintenance than wound type rotor.

Question ID : 7246223149

Chosen Option : 4



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<p><input checked="" type="checkbox"/> 3. Efficiency and power factor of cage motor is higher than wound type rotor.</p> <p><input checked="" type="checkbox"/> 4. Low starting torque in wound type rotor.</p>	
<p><b>Q.53</b> What will be the voltage regulation of alternator, when it supplies leading pf load?</p> <p>Ans <input checked="" type="checkbox"/> 1. It may be positive, negative or zero.</p> <p><input checked="" type="checkbox"/> 2. Positive</p> <p><input checked="" type="checkbox"/> 3. Zero</p> <p><input checked="" type="checkbox"/> 4. Negative</p>	<p>Question ID : 7246223144</p> <p>Chosen Option : 4</p>
<p><b>Q.54</b> In synchronous generator, pitch factor is _____.</p> <p>Ans <input checked="" type="checkbox"/> 1. 2</p> <p><input checked="" type="checkbox"/> 2. &gt;1</p> <p><input checked="" type="checkbox"/> 3. &lt;1</p> <p><input checked="" type="checkbox"/> 4. =1</p>	<p>Question ID : 7246223137</p> <p>Chosen Option : 3</p>
<p><b>Q.55</b> The emf induced in the armature of a shunt generator is 600V. The armature resistance is 0.1 ohm. If the armature current is 200A, the terminal voltage will be.</p> <p>Ans <input checked="" type="checkbox"/> 1. 620 V</p> <p><input checked="" type="checkbox"/> 2. 640 V</p> <p><input checked="" type="checkbox"/> 3. 600 V</p> <p><input checked="" type="checkbox"/> 4. 580 V</p>	<p>Question ID : 7246223128</p> <p>Chosen Option : 4</p>
<p><b>Q.56</b> Parallax error is:</p> <p>Ans <input checked="" type="checkbox"/> 1. Systematic error</p> <p><input checked="" type="checkbox"/> 2. Environmental error</p> <p><input checked="" type="checkbox"/> 3. Observational error</p> <p><input checked="" type="checkbox"/> 4. Random error</p>	<p>Question ID : 7246223119</p> <p>Chosen Option : 3</p>
<p><b>Q.57</b> Which one of these methods is used for measurement of low resistance?</p> <p>Ans <input checked="" type="checkbox"/> 1. Loss of charge method</p> <p><input checked="" type="checkbox"/> 2. Kelvin's Double bridge circuit</p> <p><input checked="" type="checkbox"/> 3. Wheatstone bridge</p> <p><input checked="" type="checkbox"/> 4. Direct deflection method</p>	<p>Question ID : 7246223120</p> <p>Chosen Option : 2</p>
<p><b>Q.58</b> Synchroscope is used to check _____.</p> <p>Ans <input checked="" type="checkbox"/> 1. Frequency difference</p> <p><input checked="" type="checkbox"/> 2. Phase angle difference.</p> <p><input checked="" type="checkbox"/> 3. Phase sequence</p> <p><input checked="" type="checkbox"/> 4. RMS voltage</p>	<p>Question ID : 7246223145</p> <p>Chosen Option : 1</p>
<p><b>Q.59</b> What will be the maximum sag if working tension is 4000 kg, resultant force per meter length of conductor is 2 and span length is 320 meter?</p> <p>Ans <input checked="" type="checkbox"/> 1. 10.2</p> <p><input checked="" type="checkbox"/> 2. 6.4</p> <p><input checked="" type="checkbox"/> 3. 3.2</p> <p><input checked="" type="checkbox"/> 4. 9.6</p>	<p>Question ID : 7246223159</p> <p>Chosen Option : --</p>
<p><b>Q.60</b> The ratio of average load to maximum demand of a power station is known as:</p> <p>Ans <input checked="" type="checkbox"/> 1. Demand Factor</p> <p><input checked="" type="checkbox"/> 2. Plant Capacity factor</p> <p><input checked="" type="checkbox"/> 3. Load Factor</p> <p><input checked="" type="checkbox"/> 4. Diversity factor</p>	<p>Question ID : 7246223179</p> <p>Chosen Option : 3</p>
<p><b>Q.61</b> In a hydroelectric power plant, water hammer phenomenon can be avoided by providing:</p> <p>Ans <input checked="" type="checkbox"/> 1. surgetank</p>	<p>Question ID : 7246223157</p> <p>Chosen Option : --</p>

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- 2. conduit
- 3. forbey
- 4. spillway

Q.62 Torque produced in shaded pole structure induction type relay is:

Ans  1. Proportional to square of the current

2.

Inversely proportional to square of the current

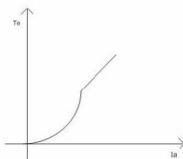
3. Inversely proportional to current

4. Proportional to current

Question ID : 7246223175

Chosen Option : 1

Q.63 The electromagnetic torque ( $T_e$ ) Vs Armature current ( $I_a$ ) characteristics of \_\_\_\_\_ machine is shown in below figure.



Ans  1. DC Differential Compound motor

2. DC Cumulatively Compound motor

3. DC Series motor

4. DC Shunt generator

Question ID : 7246223129

Chosen Option : 3

Q.64 What would be the magnitude and direction of average voltage induced across the field coils of a 6-pole DC generator each having 500 turns if there is a magnetic flux of 0.03 Wb/pole when the field is excited and residual magnetism of 0.003 Wb/pole after the field circuit is opened in 0.02 second? Consider the field coils to be connected in series.

Ans  1.

24300 V and its direction is opposite to the initial direction of exciting current.

2.

486 V and its direction is opposite to the initial direction of exciting current.

3.

486 V and its direction is same as the initial direction of exciting current.

4.

24300 V and its direction is same as the initial direction of exciting current.

Question ID : 7246223102

Chosen Option : --

Q.65 Which type of instrument is unaffected by frequency variations?

Ans  1. Electrostatic Instruments

2. EMMC

3. PMMC

4. Moving Iron

Question ID : 7246223121

Chosen Option : 1

Q.66 Frequency of induced voltages in 1-phase transformer is constant because \_\_\_\_\_.

Ans  1. Leakage flux is less.

2. Depends upon number of poles.

3. Relative motion between coils is present.

4. There is no relative motion between coils.

Question ID : 7246223132

Chosen Option : 4

Q.67 A CANDU (Canadian deuterium uranium) type reactor uses \_\_\_\_\_ as a moderator.

Ans  1. heavy water

2. graphite

3. ordinary water

4. pressurized water

Question ID : 7246223158

Chosen Option : 1

Q.68 The voltage applied to the electrodes for electroplating is in the range of:

Ans  1. 24 V – 48 V AC

2. 24 V – 48 V DC

3. 1 V – 6 V DC

Question ID : 7246223185

Chosen Option : --

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<b>X 4. 1 V – 6 V AC</b>	
<p><b>Q.69</b> What is the difference in the induced voltages of a 220 V separately excited DC machine having armature resistance of 1 <math>\Omega</math> and full load current of 20 A, when the machine is running as a generator and as a motor?</p> <p>Ans <b>X 1. 50 V</b>  <b>✓ 2. 40 V</b>  <b>X 3. 20 V</b>  <b>X 4. 0 V</b></p>	<p>Question ID : <b>7246223130</b>            Chosen Option : 2</p>
<p><b>Q.70</b> A Thermal station has following data:            Boiler efficiency = 75% Electrical Efficiency = 50%            Turbine efficiency = 80%            Calculate overall efficiency of the plant.</p> <p>Ans <b>X 1. 31%</b>  <b>✓ 2. 30%</b>  <b>X 3. 29%</b>  <b>X 4. 35%</b></p>	<p>Question ID : <b>7246223169</b>            Chosen Option : 2</p>
<p><b>Q.71</b> What is the overall efficiency of steam power plant?</p> <p>Ans <b>X 1. 59%</b>  <b>✓ 2. 29%</b>  <b>X 3. 69%</b>  <b>X 4. 44%</b></p>	<p>Question ID : <b>7246223168</b>            Chosen Option : 2</p>
<p><b>Q.72</b> Consider a coil of 150 turns carrying a current of 10 A. If an induced electromotive force of 300 V is produced when this current is reversed in 0.01 second, then calculate the flux linked with the coil</p> <p>Ans <b>X 1. 0.1 Wb</b>  <b>X 2. 0.05 Wb</b>  <b>✓ 3. 0.01 Wb</b>  <b>X 4. 0.5 Wb</b></p>	<p>Question ID : <b>7246223109</b>            Chosen Option : --</p>
<p><b>Q.73</b> Which of the following methods of electrical heating utilizes transformer principle?</p> <p>Ans <b>X 1. Arc furnace</b>  <b>X 2. Microwave heating</b>  <b>X 3. Dielectric heating</b>  <b>✓ 4. Induction furnace</b></p>	<p>Question ID : <b>7246223182</b>            Chosen Option : 4</p>
<p><b>Q.74</b> Synchronous condenser used for power factor improvement is synchronous motor which operates at:</p> <p>Ans <b>✓ 1. no load with leading current</b>  <b>X 2. full load with lagging current</b>  <b>X 3. no load with lagging current</b>  <b>X 4. full load with leading current</b></p>	<p>Question ID : <b>7246223162</b>            Chosen Option : 1</p>
<p><b>Q.75</b> The phenomenon of current chopping mainly occurs in which type of circuit breaker?</p> <p>Ans <b>X 1. Vacuum circuit breaker</b>  <b>X 2. Oil circuit breaker</b>  <b>✓ 3. Air blast circuit breaker</b>  <b>X 4. SF6 circuit breaker</b></p>	<p>Question ID : <b>7246223174</b>            Chosen Option : 1</p>
<p><b>Q.76</b> Line Current of A 500 V DC shunt motor is 52 A shunt field and armature resistance are 250 <math>\Omega</math> and 0.5 <math>\Omega</math> respectively. Determine the back e.m.f.</p> <p>Ans <b>✓ 1. 475 V</b>  <b>X 2. 450 V</b>  <b>X 3. 500 V</b>  <b>X 4. 448 V</b></p>	<p>Question ID : <b>7246223123</b>            Chosen Option : 1</p>
<p><b>Q.77</b></p>	<p>Question ID : <b>7246223164</b>            Chosen Option : --</p>

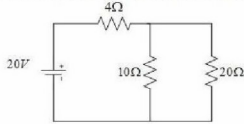
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For the protection of transformer using differential protection scheme, which of the following pair is true?

	Power Transformer	Current Transformer
Pair 1	Star-Delta	Star-Delta
Pair 2	Delta-Star	Delta-Star
Pair 3	Star-Delta	Delta-Star
Pair 4	Star-Star	Star-Star

- Ans
- 1. Pair 1
  - 2. Pair 4
  - 3. Pair 3
  - 4. Pair 2

Q.78 Consider the circuit shown below. Find the current flowing through 20  $\Omega$  resistor:

Question ID : 7246223104  
Chosen Option : 1

- Ans
- 1. 0.625
  - 2. 0
  - 3. 0.99
  - 4. 0.66

Q.79 Voltage range for resistance grounding is:

Question ID : 7246223171  
Chosen Option : --

- Ans
- 1. 33 kV to 66 kV
  - 2. 66 kV to 220 kV
  - 3. 3.3 kV to 11 kV
  - 4. Above 220 kV

Q.80 The direction of rotation in a shaded pole induction motor is:

Question ID : 7246223155  
Chosen Option : 2

- Ans
- 1. depends upon voltage
  - 2. from main pole to shaded pole
  - 3. from shaded pole to main pole
  - 4. depends on power factor

Q.81 Which of the following power factor gives positive voltage regulation in transformer?

Question ID : 7246223135  
Chosen Option : 1

- Ans
- 1. Lagging.
  - 2. Unity.
  - 3. Leading.
  - 4. Unity and lagging.

Q.82 In synchronous motor, nature of armature reaction is \_\_\_\_\_ when it draws a lagging power factor current.

Question ID : 7246223140  
Chosen Option : 3

- Ans
- 1. Demagnetizing.
  - 2. Cross-magnetizing.
  - 3. Partly demagnetizing and partly cross-magnetizing
  - 4. Partly magnetizing and partly cross-magnetizing

Q.83 In synchronous motor, nature of armature reaction is \_\_\_\_\_ when it draws a leading power factor current.

Question ID : 7246223141  
Chosen Option : 3

- Ans
- 1. Partly demagnetizing and partly cross-magnetizing.
  - 2. Cross-magnetizing.
  - 3. Partly magnetizing and partly cross-magnetizing.
  - 4. Demagnetizing.

Q.84 What is the RMS value of a sinusoidally alternating voltage if its maximum value is equal to 10 V?

Question ID : 7246223107  
Chosen Option : 3

- Ans
- 1. 14.14 V

- 2. 1.414 V
- 3. 7.07 V
- 4. 0.707 V

**Q.85** Consider a 500 volt d.c shunt motor, when on load, running at 750 rpm with armature current of 100 A where armature resistance is 0.5 Ω. If the flux is reduced by 50% without changing the load torque then the new speed of motor is

- Ans
- 1. 666.6 rpm
  - 2. 333.3 rpm
  - 3. 2666.6 rpm
  - 4. 1333.3 rpm

Question ID : 7246223124  
Chosen Option : 1

**Q.86** A voltage-controlled capacitance semiconductor device is usually operated in:

- Ans
- 1. unbiased mode
  - 2. forward biased mode
  - 3. reverse biased mode
  - 4. in the breakdown region

Question ID : 7246223114  
Chosen Option : 3

**Q.87** Which of the following factors is always greater than unity?

- Ans
- 1. Load factor
  - 2. Diversity factor
  - 3. Demand factor
  - 4. Coincidence factor

Question ID : 7246223161  
Chosen Option : 2

**Q.88** A generating station has maximum demand of 25 MW and average load on generating station is 15 MW. What will be the load factor?

- Ans
- 1. 0.2
  - 2. 1.66
  - 3. 0.6
  - 4. 0.8

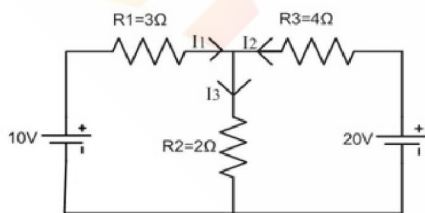
Question ID : 7246223170  
Chosen Option : 3

**Q.89** From the following options, which is the primary function of fuse?

- Ans
- 1. Prevent flow of current through earth
  - 2. Prevent low currents to flow through the circuit
  - 3. Prevent excessive currents from flowing through the circuit
  - 4. Short the circuit

Question ID : 7246223173  
Chosen Option : 3

**Q.90** Find the current  $I_3$ .



- Ans
- 1. 2.5 A
  - 2. 1.5 A
  - 3. 3.8 A
  - 4. 1 A

Question ID : 7246223116  
Chosen Option : 3

Section : General English

**Q.1** Select the option which means the same as the given word/ group of words.  
go about cautiously looking for a chance to get food (as wild animals do)

- Ans
- 1. slide
  - 2. prowl

Question ID : 7246223195  
Chosen Option : --

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 3. growl 4. wade

Q.2 Select the most appropriate option to fill in the blank.

Where did you have your early education? \_\_\_\_\_ the Delhi Public School.

Question ID : 7246223193

Chosen Option : 1

Ans  1. From 2. On 3. In 4. At

Q.3 Arrange the fragments given below to form a meaningful sentence.

- A. have for the most part  
 B. people of Ethiopia  
 C. lost touch with the peasantry  
 D. who are trying to modernize their country

Question ID : 7246223200

Chosen Option : 2

Ans  1. BCAD 2. BADC 3. BDAC 4. BACD

Q.4 Select the most appropriate option to fill in the blank.

It was late, but since \_\_\_\_\_ moon was shining in the sky we could find our way in \_\_\_\_\_ forest.

Question ID : 7246223191

Chosen Option : 4

Ans  1. a ; the 2. no word needed ; the 3. the ; a 4. the ; the

Q.5 Select the most appropriate option to fill in the blank.

For the last two months, they \_\_\_\_\_ to decipher the writing on the walls of the ancient temples.

Question ID : 7246223192

Chosen Option : 1

Ans  1. tried 2. have been trying 3. try 4. had tried

Q.6 In the following sentences four words or phrases have been underlined. One of them is incorrect. Choose the incorrect word or phrase from the given options.

Although he is nearly forty, he cannot be called, by any means, a maturing person.

Question ID : 7246223198

Chosen Option : 1

Ans  1. a maturing person. 2. Although 3. by any means, 4. is nearly forty,

Q.7 Select the antonym of the given word.

REGULAR

Question ID : 7246223196

Chosen Option : 3

Ans  1. disregular 2. imregular 3. irregular 4. unregular

Q.8 Select the correct passive form of the given sentence.

People have been ignoring the role of women in national development for ages.

Question ID : 7246223199

Chosen Option : 4

Ans  1.

The national development in the role of women has been ignored for ages.

 2.

The role of women in national development is being ignored for ages.

 3.

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The role of women in national development will be ignored for all ages to come.

✓ 4.

The role of women in national development has been ignored for ages.

Q.9 Select the most appropriate option to fill in the blank.

The guard found a key lying on the road of the colony. Shikha said it was \_\_\_\_\_.

- Ans
- ✓ 1. hers
  - ✗ 2. her
  - ✗ 3. us
  - ✗ 4. our

Question ID : 7246223194

Chosen Option : 2

Q.10 Select the correctly spelt word.

- Ans
- ✗ 1. remembrance
  - ✓ 2. remembrance
  - ✗ 3. remambrance
  - ✗ 4. remembrece

Question ID : 7246223197

Chosen Option : 2

Section : Quantitative Aptitude

Q.1 A, B and C are three partners in a business. B started the business and A joined him after 2 months with an investment which is 20% more than that of B. C joined them later. The investment of B is  $\frac{2}{3}$  of the investment of C. If in the annual profit, share in profit of C is  $\frac{1}{3}$  of the sum of shares of A and B, then for how long was C's investment in the business?

- Ans
- ✗ 1. 4 months
  - ✗ 2.  $4\frac{1}{2}$  months
  - ✓ 3. 6 months
  - ✗ 4. 5 months

Question ID : 7246223212

Chosen Option : --

Q.2 In an examination, 75% students passed from school A. The number of students appeared from school B is 20% more than that of A and the total number of students who passed the examination is 40% more than the number of students passed from A. What is the percentage of students passed to those who appeared from B?

- Ans
- ✗ 1. 70
  - ✓ 2. 87.5
  - ✗ 3. 62.5
  - ✗ 4. 65

Question ID : 7246223202

Chosen Option : --

Q.3 If  $5x^2 + y^2 + z^2 + 5 = 2x(y + 2) + 4z$ , then the value of  $(4x + 2y - z)$  is:

- Ans
- ✗ 1.  $\frac{1}{2}$
  - ✗ 2.  $-\frac{1}{2}$
  - ✓ 3. 1
  - ✗ 4. 0

Question ID : 7246223210

Chosen Option : --

Q.4 4 litre of a solution having 10% acid was mixed with 5 litre of a solution having 16% acid. Six litre of pure acid was then added to the resulting solution. The concentration of acid in the final solution is:

- Ans
- ✗ 1. 50%
  - ✗ 2. 54%
  - ✓ 3. 48%
  - ✗ 4. 60%

Question ID : 7246223211

Chosen Option : --

Q.5 A, B and C can do a work in 36, 72 and 54 days respectively. They started the work together but A left 8 days before the completion of the work and C left 12 days before the completion of the work. In how many days was the work completed?

- Ans
- ✗ 1. 20
  - ✗ 2. 21
  - ✓ 3. 24
  - ✗ 4. 25

Question ID : 7246223209

Chosen Option : --

Q.6 The percentage profit earned by selling an article for ₹ 2076 is equal to the percentage loss incurred by selling the same article for ₹ 1524. At what price should the article be sold to earn a profit of  $33\frac{1}{3}\%$ ?

- Ans
- ✗ 1. ₹ 2700
  - ✗ 2. ₹ 2500

Question ID : 7246223203

Chosen Option : --

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✓ 3. ₹ 2400

✗ 4. ₹ 2860

Q.7 Two trains  $x$  and  $y$  start at the same time,  $x$  from A to B and the other from B to A. After passing each other  $x$  and  $y$  take  $8\frac{1}{2}$  hours and  $4\frac{1}{2}$  hours respectively to reach their destinations. If the speed of  $y$  is 35 km/h, then what is the speed (in km/h) of  $x$ ?

Question ID : 7246223208

Chosen Option : 1

Ans ✓ 1. 25

✗ 2. 28

✗ 3. 24

✗ 4. 30

Q.8 A, B and C enter into partnership by investing capitals in the ratio  $\frac{1}{2} : \frac{1}{3} : \frac{1}{4}$ . After 4 months, A withdraws 50% of his capital and after another 8 months, profit of ₹ 20240 is distributed between them. What is the difference between the shares of A and C in the profit?

Question ID : 7246223207

Chosen Option : --

Ans ✗ 1. ₹ 1920

✓ 2. ₹ 1840

✗ 3. ₹ 1980

✗ 4. ₹ 1860

Q.9 If  $x^2 - 3x + 1 = 0$ , then the value of  $x^{10} + \frac{1}{x^{10}}$  is:

Question ID : 7246223215

Chosen Option : --

Ans ✗ 1. 14408

✗ 2. 14642

✗ 3. 14638

✓ 4. 15127

Q.10 If Satya travels at 30 km/h, she is late by 20 minutes to her office, whereas if she travels at 45 km/h, she is early by 10 minutes. Then at what speed should she travel such that she is neither late nor early?

Question ID : 7246223213

Chosen Option : 1

Ans ✓ 1.  $38\frac{4}{7}$  km/h✗ 2.  $38\frac{2}{7}$  km/h

✗ 3. 36 km/h

✗ 4. 40 km/h

Q.11 The ratio of the number of boys in schools A and B is 5 : 7 and the ratio of the total number of students in A and B is 3 : 4. If the number of girls in B is equal to  $66\frac{2}{3}\%$  of the total students in B, then what is the ratio of the number of girls in A and B?

Question ID : 7246223206

Chosen Option : --

Ans ✗ 1. 43 : 46

✗ 2. 8 : 11

✓ 3. 43 : 56

✗ 4. 33 : 56

Q.12 A certain sum amounts to ₹ 6352.50 in  $2\frac{1}{2}$  years at 10% p.a. compound interest, interest compounded yearly. What will be the simple interest on the same sum for double the time at the same rate of interest?

Question ID : 7246223204

Chosen Option : --

Ans ✓ 1. ₹ 2500

✗ 2. ₹ 2400

✗ 3. ₹ 2560

✗ 4. ₹ 2480

Q.13 A and B can complete a work in 20 days whereas A and C can complete the same work in 30 days. C alone can complete the work in 40 days. A, B and C work together for 8 days. C alone will complete the remaining work in:

Question ID : 7246223214

Chosen Option : --

Ans ✓ 1. 16 days

✗ 2. 10 days

✗ 3. 12 days

✗ 4. 24 days

Q.14 The value of  $\frac{3\sqrt{2}}{\sqrt{6}-\sqrt{3}} - \frac{4\sqrt{3}}{\sqrt{8}-\sqrt{12}} + \frac{3}{2(3-\sqrt{8})}$  is closet to:

Question ID : 7246223205

Chosen Option : --

Ans ✗ 1. 9

✗ 2. 8.8

✓ 3. 8

✗ 4. 7.8



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**Q.15** The sum of three consecutive odd numbers and three consecutive even numbers together is 471. Also, the largest even number is 15 more than the largest odd number. What is the sum of the smallest odd number and the smallest even number?

- Ans
- 1. 153
  - 2. 155
  - 3. 157
  - 4. 151

Question ID : 7246223201  
Chosen Option : --

Section : Logical Ability

**Q.1** If table is called oven, oven is called knife, knife is called toaster and toaster is called fridge, which of these will be used to bake cakes?

- Ans
- 1. table
  - 2. toaster
  - 3. knife
  - 4. fridge

Question ID : 7246223223  
Chosen Option : 3

**Q.2** Shama is Sumita's only sister. Sumita's husband's mother-in-law has a son, Sliyan, whose daughter is Bhumika. How is Sumita's son Abhijeet related to Bhumika?

- Ans
- 1. Cousin
  - 2. Nephew
  - 3. Brother
  - 4. Brother-in-law

Question ID : 7246223225  
Chosen Option : 1

**Q.3** What will appear in place of the blank in the following series?

4, 8, 16, 28, \_\_, 64

- Ans
- 1. 56
  - 2. 40
  - 3. 46
  - 4. 44

Question ID : 7246223221  
Chosen Option : 4

**Q.4** If 'S' means 'addition', '@' means 'subtraction', '#' means 'multiplication' and 'C' means 'division', then  $56 \text{ C } 8 \# 3 \text{ S } 5 \text{ @ } 1 = ?$

- Ans
- 1. 21
  - 2. 25
  - 3. 34
  - 4. 26

Question ID : 7246223219  
Chosen Option : 2

**Q.5** Select the option that is related to the third term in the same way as the second term is related to the first term.

Bunch : Keys :: Herd : ?

- Ans
- 1. Lions
  - 2. Birds
  - 3. Cattle
  - 4. Fish

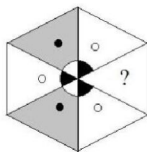
Question ID : 7246223216  
Chosen Option : 3

**Q.6** Find the odd word out.

- Ans
- 1. Stone
  - 2. Brick
  - 3. Rock
  - 4. Pebble

Question ID : 7246223218  
Chosen Option : 4

**Q.7** Select the figure that correctly replaces the question mark '?' and completes the following image:

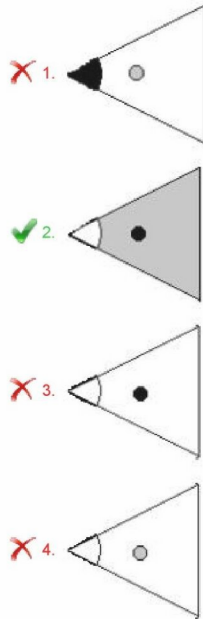


Ans

Question ID : 7246223220  
Chosen Option : 2

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**Q.8** Jawed scored 23 marks in a class test. Shakeel scored 1 mark more than Jawed, but 1 mark less than Azhar. Siraj scored 4 marks more than Afab, and 2 marks less than Shakeel. Who scored the highest marks in the given test?

- Ans**
- 1. Shakeel
  - 2. Azhar
  - 3. Jawed
  - 4. Siraj

Question ID : 7246223222

Chosen Option : 2

**Q.9** Select the analogous pair of words from the given options.

Loyal : Devoted

- Ans**
- 1. Useful : Futile
  - 2. Careful : Reckless
  - 3. Diligent : Industrious
  - 4. Idle : Rustic

Question ID : 7246223217

Chosen Option : --

**Q.10** An address is given below which has been reproduced against the four alternatives. Of them, three have some mistakes or the other, while one is exactly the same. Select the option that is exactly the same as the given address.

Prof. Sanjay Mirigal,  
Reader's Line,  
Rose Avenue,  
NIET, Farrukhabad,  
Uttar Pradesh

- Ans**
- 1. Prof. Sanjay Mirigal,  
Reader's Line,  
Rose Avenue,  
NIET, Farrukhabad,  
Uttar Pradesh
  - 2. Prof. Sanjay Mirigal,  
Reader's Line,  
Roze Avennue,  
NETT, Farrukhabad,  
Uttar Pradesh
  - 3. Prof. Sanjay Mirigal,  
Readers Lane,  
Rose Avenue,  
NIET, Farrukhabad,  
Uttar Pardesh
  - 4. Prof. Sanjay Mrigal,  
Reader's Line,  
Rose Avenue,  
NIET, Farukhabad,  
Uttar Pradesh

Question ID : 7246223224

Chosen Option : 1

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Section : General Awareness

**Q.1** Select the plants which do not have roots, stems, and leaves.

Question ID : 7246223236  
Chosen Option : 1

Ans  1. Algae  
 2. Conifers  
 3. Mosses  
 4. Ferns

---

**Q.2** A Portuguese explorer, Vasco da Gama, discovered sea route to India in:

Question ID : 7246223226  
Chosen Option : 1

Ans  1. 1600  
 2. 1498  
 3. 1731  
 4. 1444

---

**Q.3** Which among the following stated that British India would remain under the administration of the company in trust for the Crown until Parliament should decide otherwise?

Question ID : 7246223227  
Chosen Option : --

Ans  1. Government of India Act 1833  
 2. English Education Act 1835  
 3. Government of India Act 1853  
 4. Government of India Act 1821

---

**Q.4** In which of the following we find Myocytes cells?

Question ID : 7246223237  
Chosen Option : --

Ans  1. eye  
 2. liver  
 3. spleen  
 4. heart

---

**Q.5** Who has been credited deservedly as Father of the Computer, who is also the world-renowned inventor of Differential Engine and Analytical Engine?

Question ID : 7246223238  
Chosen Option : --

Ans  1. John W. Backus  
 2. Harold Abelson  
 3. Vinton Cerf  
 4. Charles Babbage

---

**Q.6** Chairman of the first planning commission of India was:

Question ID : 7246223235  
Chosen Option : 3

Ans  1. Subhash Chandra Bose  
 2. Narendra Sarkar  
 3. Jawaharlal Nehru  
 4. Mahatma Gandhi

---

**Q.7** Which among the following is a Rabi crop?

Question ID : 7246223228  
Chosen Option : --

Ans  1. Bajra  
 2. Jowar  
 3. Tur  
 4. Wheat

---

**Q.8** 1/6 of the total number of members of the Legislative Council of a State is:

Question ID : 7246223232  
Chosen Option : 3

Ans  1. nominated by the Governor  
 2. nominated by the Chairman of the Legislative Council  
 3. elected by the members of the Legislative Assembly  
 4. elected by the advocates of the State

---

**Q.9** Which of the following countries is the largest producer as well as consumer of pulses?

Question ID : 7246223233  
Chosen Option : --

Ans  1. China  
 2. Pakistan

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<p><input checked="" type="checkbox"/> 3. India</p> <p><input type="checkbox"/> 4. Sri Lanka</p>	
<p><b>Q.10</b> Which deity is worshipped in Ramanathaswamy temple, Rameshwaram in Tamil Nadu?</p> <p><b>Ans</b> <input type="checkbox"/> 1. Lord Krishna</p> <p><input checked="" type="checkbox"/> 2. Lord Shiva</p> <p><input type="checkbox"/> 3. Lord Rama</p> <p><input type="checkbox"/> 4. Lord Ganesha</p>	<p>Question ID : <b>7246223240</b></p> <p>Chosen Option : --</p>
<p><b>Q.11</b> _____ of the members of the Rajya Sabha retire on the expiration of every second year.</p> <p><b>Ans</b> <input type="checkbox"/> 1. 1/4<sup>th</sup></p> <p><input checked="" type="checkbox"/> 2. 1/3<sup>rd</sup></p> <p><input type="checkbox"/> 3. 1/5<sup>th</sup></p> <p><input type="checkbox"/> 4. 1/6<sup>th</sup></p>	<p>Question ID : <b>7246223230</b></p> <p>Chosen Option : 2</p>
<p><b>Q.12</b> Who is the author of the famous book 'Urvashi'?</p> <p><b>Ans</b> <input checked="" type="checkbox"/> 1. Ramdhari Singh Dinkar</p> <p><input type="checkbox"/> 2. Suryakant Tripathi Nirala</p> <p><input type="checkbox"/> 3. Mahadevi Varma</p> <p><input type="checkbox"/> 4. Yashpal</p>	<p>Question ID : <b>7246223239</b></p> <p>Chosen Option : --</p>
<p><b>Q.13</b> Which of the following is correct?</p> <p><b>Ans</b> <input type="checkbox"/> 1. The President presides over a joint sitting of the two Houses of Parliament.</p> <p><input type="checkbox"/> 2. The Prime Minister presides over a joint sitting of the two Houses of Parliament.</p> <p><input type="checkbox"/> 3. The Chairman of the Rajya Sabha presides over a joint sitting of the two Houses of Parliament.</p> <p><input checked="" type="checkbox"/> 4. The Speaker of the Lok Sabha presides over a joint sitting of the two Houses of Parliament.</p>	<p>Question ID : <b>7246223231</b></p> <p>Chosen Option : --</p>
<p><b>Q.14</b> Why was second green revolution launched by the government?</p> <p><b>Ans</b> <input checked="" type="checkbox"/> 1. To boost agricultural production with sustainable approach</p> <p><input type="checkbox"/> 2. To boost exports of the economy</p> <p><input type="checkbox"/> 3. To boost tertiary sector contribution</p> <p><input type="checkbox"/> 4. To boost industrial production with sustainable approach</p>	<p>Question ID : <b>7246223234</b></p> <p>Chosen Option : --</p>
<p><b>Q.15</b> ISRO launched the first Indian satellite, Aryabhata, on 19th April _____.</p> <p><b>Ans</b> <input type="checkbox"/> 1. 1978</p> <p><input type="checkbox"/> 2. 1981</p> <p><input checked="" type="checkbox"/> 3. 1975</p> <p><input type="checkbox"/> 4. 1972</p>	<p>Question ID : <b>7246223229</b></p> <p>Chosen Option : --</p>